PARSONS - U.S. Appln. No. 10/812,083 Attorney Docket No.: 071469-0306000

- Amendment After Final Rejection -

T-046 P 006/013 F-878

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented): The method of claim 2, further comprising: forming a shallow cup in the part or sub assembly of the semiconductor processing tool; and

placing the identification tag in the cup.

2. (Currently Amended): A method of employing at least one identification tag to determine the presence or absence of a part or sub assembly of a semiconductor process tool, comprising:

attaching the identification tag to the part or sub assembly of the semiconductor processing tool, the identification tag comprising a passive resonant circuit that is responsive to radio frequency energy;

applying an electromagnetic a radio frequency signal to the identification tag, which creates a measurable dip decrease in field strength in at least a portion of the electromagnetic radio frequency signal;

determining the presence or absence of the dip decreased field strength; and determining the presence or absence of the part or assembly from based on the presence or absence of the decreased field strength.

- 3. (Original): The method of claim 2, wherein the attaching includes adhering the identification tag to the part or sub assembly with adhesive.
- 4. (Previously Presented): The method of claim 2, wherein the attaching includes affixing the identification tag to the part or sub assembly by means of a mechanical fastener.
- 5. (Currently Amended): The method of claim 2, wherein the identification tag is responsive to radio frequency energy, the method further comprising:

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applying a swept radio frequency signal to the identification tag, wherein the identification tag alters a field strength associated with the swept radio frequency signal;

measuring a dip in the decrease in field strength through a voltage change in a sensing coil; and

determining the presence or absence of the part or assembly from based on the presence or absence of the decrease in field strength in the coil voltage.

6. (Currently Amended): A method of detecting the presence or absence of a plurality of identification tags including a passive resonant circuit that is responsive to radio frequency energy, the method comprising:

applying a swept radio frequency signal to the plurality of identification tags;

measuring at least two dips decreases in field strength in at least a portion of in the swept radio frequency via a sensing coil, the at least two dips decreases in field strength being associated with the presence of at least two from the plurality of identification tags; and

associating the at least two dips decreases in field strength in the sensing coil voltage with the at least two identification tags;

wherein the at least two identification tags are constructed to be resonant at different frequencies.

7. (Currently Amended): A method of identifying a part or assembly in a semiconductor processing tool, the part or assembly having an identification tag attached, the tag including a passive resonant circuit that is being responsive to radio frequency energy, the method comprising:

applying a swept radio frequency signal to the part or assembly having an identification tag attached;

measuring a dip decrease in field strength in at least a portion of in the swept radio frequency via a voltage change in a sensing coil;

determining a frequency at which the dip decreased field strength in the coil voltage is present; and

determining the presence or absence of the part or assembly from <u>based on</u> the presence or absence of the <u>dip decreased field strength</u> at the <u>determined</u> frequency.

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8. (Currently Amended): A method of identifying parts or assemblies in a semiconductor processing tool, the parts or assemblies each having an identification tag attached, each identification tag be including a passive resonant circuit that is responsive to radio frequency energy, comprising:

applying a swept radio frequency signal to the parts or assemblies having identification tags attached;

measuring dips decreases in field strength in at least a portion of in the swept radio frequency via a voltage change in a sensing coil;

associating the dips decreased field strengths in the sensing coil voltage with each identification tag; and

determining the presence or absence of the parts or assemblies from frequencies at which the dips occur.

wherein each of the plurality of identification tags is constructed to be resonant at different frequencies, and

determining the presence or absonce of the parts or assemblies from frequencies at which the dips occur.

- 9. (Currently Amended): An assembly comprising:
- a part or assembly of a semiconductor processing tool; and

an identification tag attached to the part or assembly, the tag being including a passive resonant circuit that is responsive to radio frequency energy of a particular frequency.

wherein, upon application of the radio frequency energy to the identification tag, the identification tag creates a measurable dip decrease in field strength in at least a portion of the radio frequency energy at the particular frequency so that the presence or absence of the part or assembly may be determined from the presence or absence of the dip decreased field strength.

- 10. (Currently Amended): An semiconductor processing tool comprising:
- a processing chamber;
- a plurality of parts or assemblies attached to or disposed in the processing chamber; and

an identification tag attached to each of the parts or assemblies, each of the tags including a passive resonant circuit, wherein

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at least two of the identification tags being are responsive to radio frequency energy of a different frequency so that, upon application of the radio frequency energy, the identification tags create at least two measurable dips decreases in field strength in at least a portion of in the radio frequency energy at the different frequencies, the at least two dips field strength decreases being associated with the presence of at least two from the identification tags.

- 11. (Previously Presented): The method of claim 6, wherein each identification tag is constructed to be resonant at different frequencies.
- 12. (Previously Presented): The semiconductor processing tool of claim 10, wherein each identification tag is responsive to radio frequency energy at a different frequency.